

M 7.5, 42 km NE of Anamizu, Japan

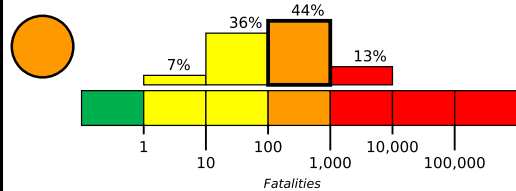
Origin Time: 2024-01-01 07:10:09 UTC (Mon 16:10:09 local)
Location: 37.4976° N 137.2416° E Depth: 10.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

PAGER Version 6

Created: 1 day, 11 hours after earthquake

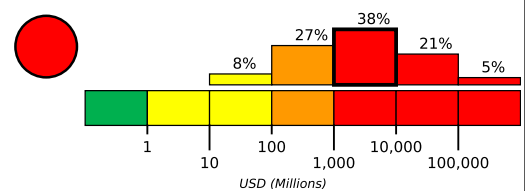
Estimated Fatalities



Red alert for economic losses. Extensive damage is probable and the disaster is likely widespread. Estimated economic losses are less than 1% of GDP of Japan. Past events with this alert level have required a national or international level response.

Orange alert for shaking-related fatalities. Significant casualties are likely.

Estimated Economic Losses

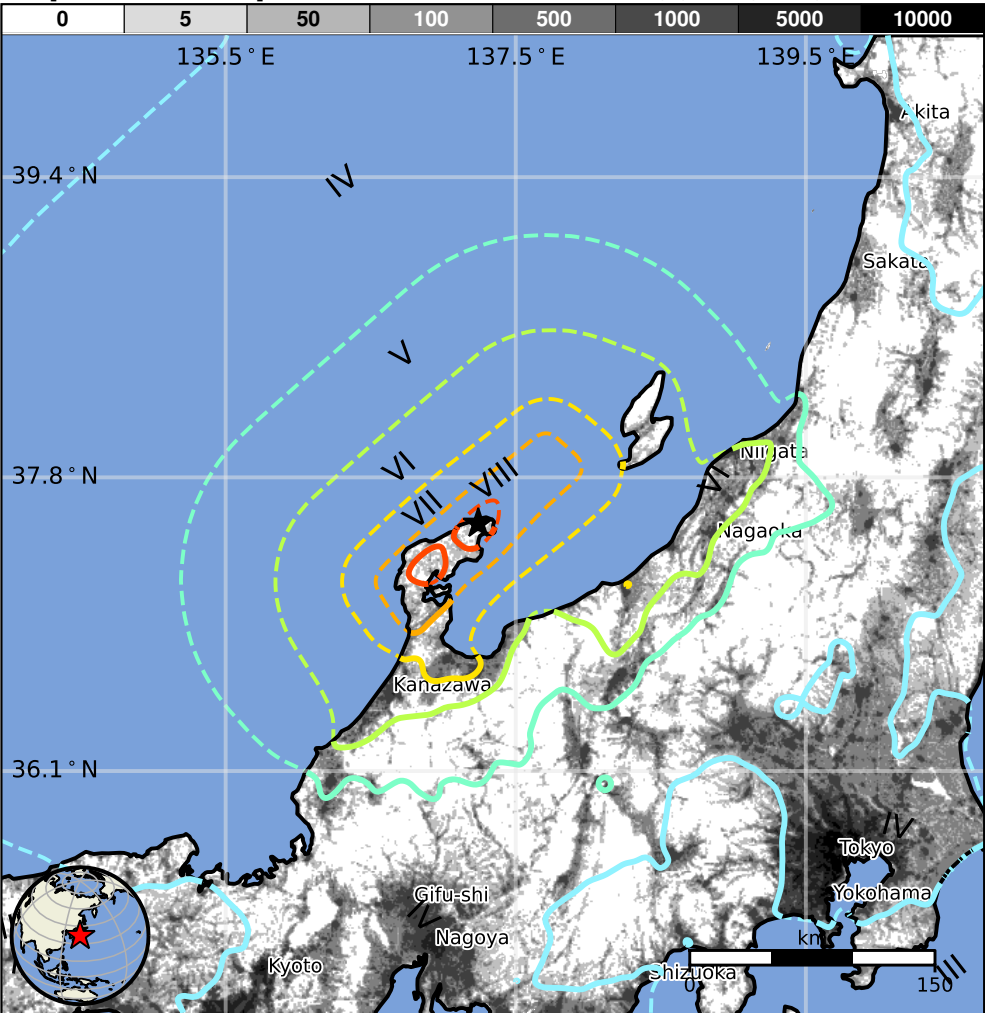


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 5,453k* | 65,016k* | 1,703k | 3,158k | 782k | 148k | 43k | 0 |
|---|-----------------------|----------|---------|----------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1996-08-10 | 333 | 5.9 | V(118k) | 0 |
| 1983-05-26 | 367 | 7.7 | VII(174k) | 104 |
| 1995-01-16 | 381 | 6.9 | IX(1,740k) | 6k |

Recent earthquakes in this area have caused secondary hazards such as tsunamis, landslides, fires and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|------|-----------------|------------|
| VIII | Nanao | 45k |
| VIII | Hakui | 25k |
| VII | Himimachi | 55k |
| VII | Nishishinminato | 36k |
| VII | Takaoka | 170k |
| VII | Toyama | 326k |
| IV | Tokyo | 8,337k |
| IV | Nagoya | 2,191k |
| IV | Saitama | 1,193k |
| IV | Yokohama | 3,574k |
| IV | Kyoto | 1,460k |

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us6000m0xl#pager

bold cities appear on map.

(k = x1000)

Event ID: us6000m0xl